

# City of Kirkland Public Works Department Improvement Evaluation Packet

Updated: June 2018

Type of Project

Please Select



Permit Number	
Project Name	
Project Location	
Contact	
Phone Number	

This form must be completed by the developer (or representative) and shall include all work required by the official Notice of Approval or conditions on the permit. Quantity take-offs shall be from documents approved by the City of Kirkland.

PUBLIC IMPROVEMENTS will be owned and maintained by the City after the appropriate maintenance period and will be subject to review and inspection fees per KMC Section 5.74.040. For subdivision work, this will include the on-site detention system.

PRIVATE IMPROVEMENTS will be owned and maintained by the property owner(s), and is not subject to the above fees. For subdivisions, include the remainder of the on-site storm drainage system (excluding the detention system) and any easement road paving. For all other types of projects, include the on-site storm drainage system only.

Items Required	Public Improvements	Private Improvements	Total Value
Construction Storm Drainage			
Clearing and Grading			
Water System			
Sanitary Sewer System			
Storm Drainage System			
LID - Storm Drainage			
Paving			
Curb and Gutter			
Sidewalks			
Landscaping			
Miscellaneous			
Other Agency Improvements			

Totals			
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Agent/Owner		Date	
City		Date	

## Permit Fee Calculations

Public Works Review and Inspection Fees are based on 10% of the total value of Public Work required and private storm drainage and LID work required.

Total Value of Public Work Required	
Private Storm Drainage and LID Work Required	
<b>Review and Inspection Fee - Public Work</b>	
<b>Review and Inspection Fee - Private Storm</b>	

## Performance Security Calculations

Have engineering plans been submitted to the City?

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If yes:

17.5% of total construction value will be added to the Performance Security for Mobilization, Traffic Control, Surveying, Engineering, and Record Drawings.  
30% contingency will be added for construction uncertainty.

Total Value of Work	
17.5% Overhead	
30% Contingency	
<b>Total Performance Security</b>	

If no:

17.5% of total construction value will be added to the Performance Security for Mobilization, Traffic Control, Surveying, Engineering, and Record Drawings.  
30% contingency will be added for design.  
30% contingency will be added for construction uncertainty.

Total Value of Work	
17.5% Overhead	
30% Design Contingency	
30% Construction Contingency	
<b>Total Performance Security</b>	

# Maintenance Security Calculation

Maintenance Security is 10% of the total cost of Public Improvements and Private Storm Drainage and LID Improvements, including a 30% contingency.

Public Improvements	
Private Storm Drainage	
Private LID	
Subtotal	
30% Contingency	
Total	

Maintenance Security (10% of Total)	
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# Public Improvements

## Construction Storm Drainage

Item	Unit	Quantity	Unit Price	Amount
Silt Fence, Installed	LF		\$5.00	
Grading for Drainage Swales	LF		\$4.00	
Sod for Drainage Swales	SY		\$9.00	
Hydroseeding	SY		\$1.00	
Construction Entrance (SF)	EA		\$3,200.00	
Construction Entrance (MF/COM/Other)	EA		\$6,400.00	
Inlet Protection	EA		\$74.00	
Straw Wattle	LF		\$4.00	
Orange Construction Fencing	LF		\$3.00	
Check Dam	EA		\$19.00	

Construction Storm Drainage - Total	
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## Clearing and Grading

Item	Unit	Quantity	Unit Price	Amount
Half-Street Improvements	LF		\$47.50	
Full-Street Improvements	LF		\$95.00	

Clearing and Grading - Total	
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## Water System

Item	Unit	Quantity	Unit Price	Amount
Water Service - 3/4" to 1"	LS		\$2,050.00	
Water Service - 1 1/2" to 2"	LS		\$4,725.00	
4" Pipe	LF		\$65.00	
6" Pipe	LF		\$97.00	
8" Pipe	LF		\$124.00	
12" Pipe	LF		\$158.00	
2" Gate Valve	EA		\$300.00	
4" Gate Valve	EA		\$600.00	
6" Gate Valve	EA		\$1,500.00	
8" Gate Valve	EA		\$1,600.00	
12" Gate Valve	EA		\$2,300.00	
Connection to Ex. Main	EA		\$4,800.00	
Fire Hydrant Assembly	EA		\$6,540.00	
2" Blow Off	EA		\$2,200.00	
Air and Vacuum Assembly	EA		\$4,450.00	
Valve Marker Post	EA		\$200.00	
5" Storz Coupling	EA		\$500.00	
Adjust Ex. Water Meter	EA		\$600.00	

Water System - Total	
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## Sanitary Sewer System

Item	Unit	Quantity	Unit Price	Amount
6" PVC Pipe	LF		\$100.00	
8" PVC Pipe	LF		\$120.00	
12" PVC Pipe	LF		\$150.00	
Extra Depth Excavation (Over 12' Deep)	FT*LF		\$8.00	
48" Manhole	EA		\$3,600.00	
54" Manhole (Drop MHs Only)	EA		\$4,000.00	
Internal Drop Structure	EA		\$970.00	
Rechannel Existing MH	EA		\$2,660.00	
Cast Iron Clean Out Cover	EA		\$160.00	
Clean Out Assembly	EA		\$735.00	

Sanitary Sewer System - Total	
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## Storm Drainage System

Item	Unit	Quantity	Unit Price	Amount
8" Pipe	LF		\$65.00	
12" Pipe	LF		\$70.00	
18" Pipe	LF		\$80.00	
24" Pipe	LF		\$100.00	
30" Pipe	LF		\$120.00	
36" Pipe	LF		\$133.00	
48" Pipe	LF		\$145.00	
Extra Depth Excavation (Over 12' Deep)	FT*LF		\$6.00	
Detention Vault	CF		\$10.00	
Other Flow Control Facility	LS			
Curb Inlet	EA		\$1,500.00	
Type I Catch Basin	EA		\$1,100.00	
Type IL Catch Basin	EA		\$1,500.00	
Type II Catch Basin - 48"	EA		\$3,300.00	
Type II Catch Basin - 54"	EA		\$4,700.00	
CMP Access to Riser	EA		\$1,600.00	
Connection to Existing CB	EA		\$940.00	
Restrictor/Pollution Control - 8"	EA		\$900.00	
Restrictor/Pollution Control - 12"	EA		\$900.00	
Pollution Control Tee	EA		\$500.00	
Debris Barrier	EA		\$1,400.00	
Biofiltration Swale	LF		\$15.00	

Storm Drainage System - Total

## Low Impact Development

Item	Unit	Quantity	Unit Price	Amount
Pervious Concrete	SY		\$108.00	
Pervious Asphalt	SY		\$44.00	
Pervious Pavers	SY		\$120.00	
Infiltration/Dispersion Trench (10')	EA		\$300.00	
Rain Garden	SY		\$120.00	
Soil Amendment	SY		\$1.50	
Drywell Infiltration (90 cf)	EA		\$500.00	

Low Impact Development

## Paving

Item	Unit	Quantity	Unit Price	Amount
AC Pavement Patching	SY		\$21.00	
4" Crushed Rock	SY		\$12.00	
Bank Run Gravel: 3" minus, in place	CY		\$68.00	
4" Asphalt Treated Base (ATB)	SY		\$21.00	
2" Class B Asphalt Pavement	SY		\$19.00	
Saw Cut AC Pavement	LF		\$3.50	
Cold Planing (Grinding) & Hauling	SY		\$13.00	
Adjust Existing Utility	EA		\$525.00	

Paving - Total	
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## Curb and Gutter

Item	Unit	Quantity	Unit Price	Amount
Concrete Extruded Curb	LF		\$16.00	
Asphalt Extruded Curb	LF		\$8.00	
Concrete Curb and Gutter, Type A	LF		\$42.00	
Rolled Concrete Curb and Gutter	LF		\$28.00	

Curb and Gutter - Total	
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## Sidewalks

Item	Unit	Quantity	Unit Price	Amount
5' Concrete Sidewalk	LF		\$44.00	
Concrete Sidewalk (other than 5')	SF		\$6.00	
5' Concrete Driveway	LF		\$36.00	
Asphalt Walkways, Class B	SY		\$49.00	
Wheel Chair Ramps	EA		\$2,060.00	
Safety Railing	LF		\$130.00	
Steel Pipe Handrail	LF		\$61.00	
Vinyl Fencing	LF		\$19.00	
Speed Hump Restoration	EA		\$1,500.00	
5' Pervious Sidewalk	LF		\$212.00	

Sidewalks - Total	
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## Landscaping

Item	Unit	Quantity	Unit Price	Amount
Street Trees	EA		\$355.00	
Sod	SY		\$45.00	
Seeded lawn	SY		\$5.00	
Rockery Wall	SY		\$400.00	

Landscaping - Total	
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## Miscellaneous

Item	Unit	Quantity	Unit Price	Amount
Monuments	EA		\$875.00	
Street Signs	EA		\$220.00	
Pavement Marking	LF		\$1.30	
Mailbox Structure	EA		\$540.00	
Type III Fixed Barricade	EA		\$400.00	
Bollards	EA		\$840.00	
Removable Bollards	EA		\$340.00	
Thermoplastic Crosswalk Markings (\$500 min)	LF		\$7.00	
Street Light	EA		\$4,000.00	
PED Light	EA		\$5,000.00	
Modular Block Walls			\$32.00	

Miscellaneous - Total	
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## Other Agency Improvements

Item	Unit	Quantity	Unit Price	Amount
Northshore Utility District	LS			
Woodinville Water District	LS			
Puget Sound Energy	LS			

Miscellaneous - Total	
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## Private Improvements

### Storm Drainage System

Item	Unit	Quantity	Unit Price	Amount
4" - 6" Pipe	LF		\$24.00	
8" Pipe	LF		\$65.00	
12" Pipe	LF		\$70.00	
18" Pipe	LF		\$80.00	
24" Pipe	LF		\$100.00	
Extra Depth Excavation (Over 12' Deep)	FT*LF		\$6.00	
Detention Vault	CF		\$10.00	
Other Flow Control Facility	LS			
Yard Drain	EA		\$265.00	
Type 40 Catch Basin	EA		\$1,225.00	
Curb Inlet	EA		\$1,500.00	
Type I Catch Basin	EA		\$1,100.00	
Type IL Catch Basin	EA		\$1,500.00	
Type II Catch Basin - 48"	EA		\$3,300.00	
Type II Catch Basin - 54"	EA		\$4,700.00	
CMP Access to Riser	EA		\$1,600.00	
Connection to Existing CB	EA		\$940.00	
Restrictor/Pollution Control - 8"	EA		\$900.00	
Restrictor/Pollution Control - 12"	EA		\$900.00	
Pollution Control Tee	EA		\$500.00	
Debris Barrier	EA		\$1,400.00	
Biofiltration Swale	LF		\$15.00	
Tightline Existing House Roof Drain	LF		\$15.00	

Storm Drainage System - Total

### Low Impact Development

Item	Unit	Quantity	Unit Price	Amount
Pervious Concrete	SY		\$108.00	
Pervious Asphalt	SY		\$44.00	
Pervious Pavers	SY		\$120.00	
Infiltration Trench (10')	EA		\$300.00	
Rain Garden	SY		\$120.00	
Soil Amendment	SY		\$1.50	
Drywell Infiltration (90 cf)	EA		\$500.00	

Low Impact Development

## Paving

Item	Unit	Quantity	Unit Price	Amount
4" Crushed Rock	SY		\$12.00	
4" Asphalt Treated Base (ATB)	SY		\$21.00	
2" Class B Asphalt Pavement	SY		\$19.00	

Paving - Total	
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## Miscellaneous

Item	Unit	Quantity	Unit Price	Amount
Property Corners	EA		\$300.00	
Street Signs	EA		\$220.00	
Fire Lane Marking	LF		\$2.00	
UG Utilities to Existing House	EA		\$2,500.00	
Modular Block Wall	SF		\$32.00	
NGRA security **	SF		\$25.00	
Monitoring Fee**	SF			

Miscellaneous - Total	
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